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IDE/Application	~ 10
Software Platform (J2SE.J2EE)	∼ 12
Platform (OS. Hardware)	~ 14

FIG. 1



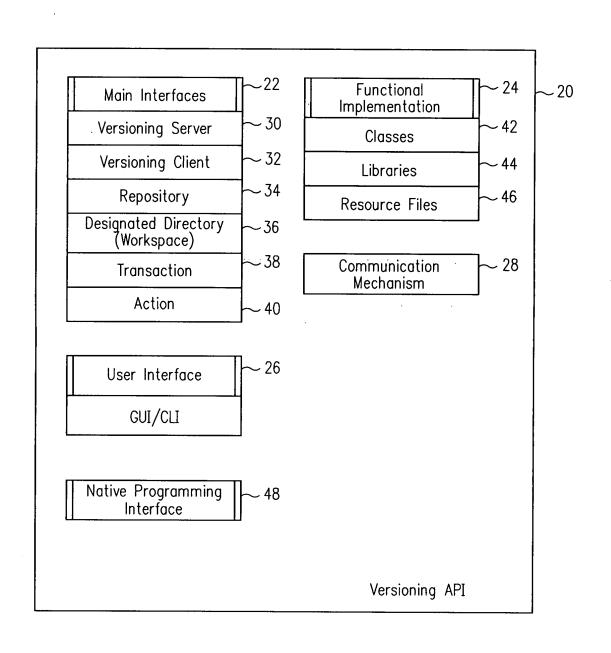
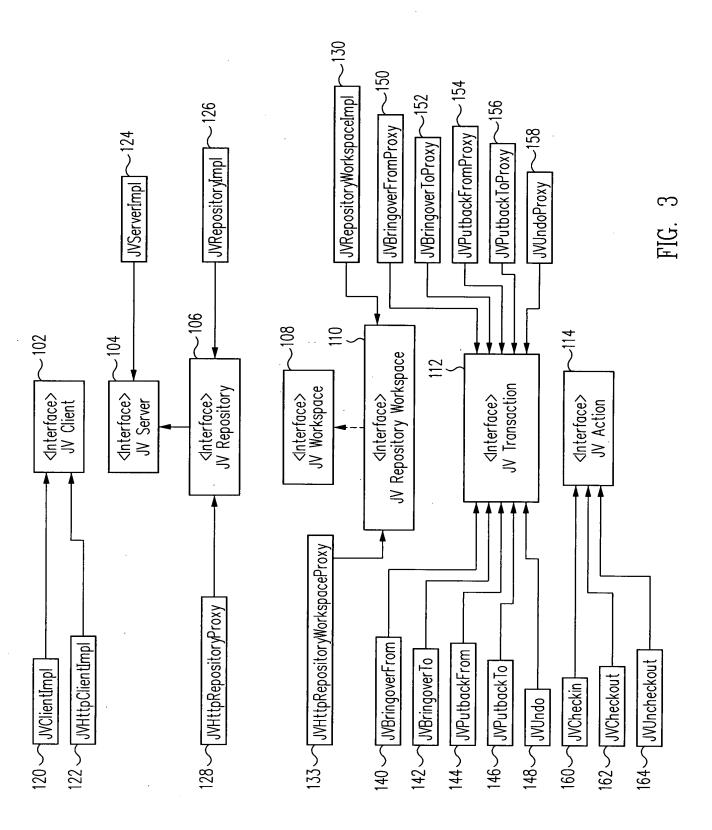


FIG. 2

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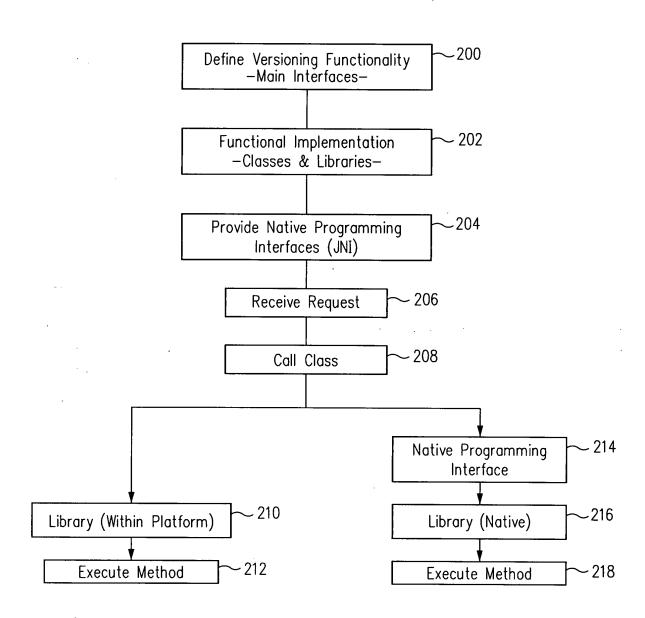
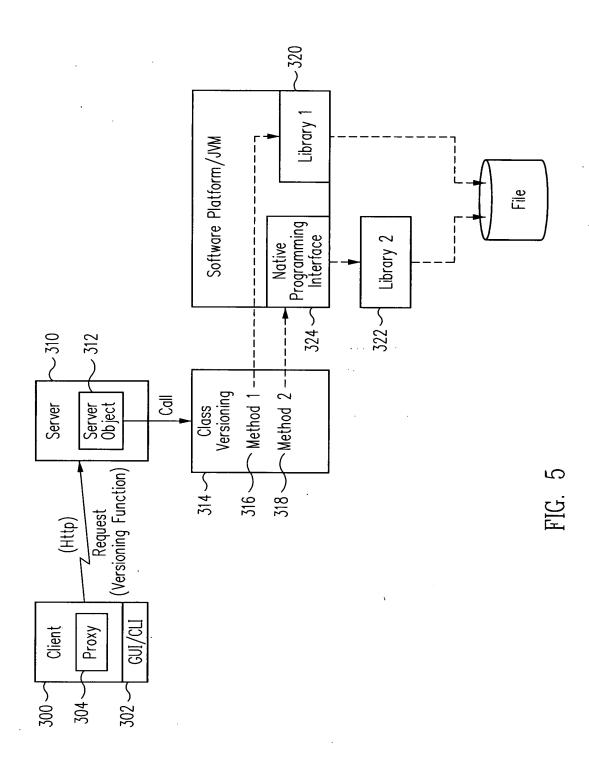
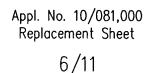


FIG. 4

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```
package javax.version;

public interface JVServer {
  public JVRepository logintoRepository(String username,
  String
  password, String repositoryname) throws JVException;
  public void logoutofRepository(JVRepository repository)
  throws
  JVException;
}
```

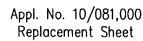
FIG. 6

public interface JVClient implements JVServer

FIG. 7 -

```
package javax.version;
public interface JVRepository {

public JVRepositoryWorkspace
getRepositoryWorkspace(String
workspaceName) throws JVException;
public List listWorkspaces() throws TwException;
public void createWorkspace(String workspacename) throws
JVException;
public void deleteWorkspace(String workspacename) throws
JVException;
public void renameWorkspace(String oldWorkspacename,
String
newWorkspacename) throws JVException;
public void lock() throws JVException;
public void unlock() throws JVException;
public void unlock() throws JVException;
```







```
package javax.version;
public interface JVWorkspace {
public boolean equals (Object o);
* Checks whether workspace exists
public boolean exists() throws JVException;
* Returns workspace abs name
public String getName();
* Oreturn false if user does not have access for specified
operation
* Oparam operation is from the set of predefined constants
*This method should always keep track of the user.
public bool checkAccess(String operation) throws JVException;
* @return false if user does not have access for specified
operation
public bool checkAccess(String operation, String user) throws
JVException;
* Add children to workspace
public void addChildren(List children) throws JVException;
* Remove children from workspace
public void removeChildren(List children) throws JVException;
* Get children of workspace
* @return List of Strings
public List getChildren() throws JVException;
```



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```
/**
* Set children of workspace
* @param children List of Strings
public void setChildren(List children) throws JVException;
* Sets new parent workspace
public void setParent(String newParent) throws JVException;
* Gets new parent workspace as String
public String getParent() throws JVException;
* Sets new parent workspace
public void setParentWorkspace(JVWorkspace newParentWorkspace)
throws JVException;
* Gets new parent workspace object
public JVWorkspace getParentWorkspace() throws JVException;
* Changes workspace parent.
* Reparents the workspace and updates the old parent metadata.
public void reparent(JVWorkspace newParent, boolean force)
throws
JVException;
* Adds of files to the list of files in conflict.
* Oparam conflicts List of Strings
public void addConflicts(List conflicts) throws JVException;
* Removes files from the list of files in conflict
* @param conflicts List of Strings
public void removeConflicts(List conflicts) throws JVException;
```



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```
/**
* Sets the list of files in conflict.
* @param conflicts List of Strings
public void setConflicts(List conflicts) throws JVException;
* Gets the list of files in conflict.
* @return List of Strings
*/
public List getConflicts() throws JVException;
* Locks workspace
*TwLock should have the fields: type, cmd, PID (SID), host,
* user, time. The constructor of JVLock should have these
arguments.
public boolean lock(JVLock lock) throws JVException;
* Returns list of workspace locks
public List getLocks() throws JVException;
* Oreturn true if the lock exists
public boolean checkLock(JVLock) throws JVException;
* Unlocks workspace
public boolean unlock(JVLock lock) throws JVException;
* Creates a new physical ws, not a ws object
public void createWorkspace() throws JVException;
* Deletes a new physical ws, not a ws object
public void deleteWorkspace(boolean metaonly) throws JVException;
* Moves a workspace
public void moveWorkspace(JVWorkspace dest) throws JVException;
```

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```
* Returns workspace description object
public JVDescription getDescription() throws JVException;
* Sets new description for workspace
public void setDescription(JVDescription newDescription) throws
JVException;
* Returns access control object
public JVAccess getAccess() throws JVException;
* Sets access control object
public void setAccess(JVAccess newVal) throws JVException;
* Gets history object
public JVHistory getHistory() throws JVException;
public void setHistory(JVHistory newVal) throws JVException;
* Gets putback validation object
public JVPutbackValidation getPutbackValidation() throws
JVException;
* Sets putback validation object
public void setPutbackValidation(JVPutbackValidation newVal)
throws
JVException;
public JVStatus getWorkspaceStatus() throws JVException;
public OutputStream getFile(String relPathName) throws
JVException;
public void putfile(InputStream istream, String relPathName)
throws JVException;
```



```
package javax.version;
public interface JVTransaction {
public static final int NOT_STARTED = 0;
public static final int STARTED = 1;
public static final int FINISHED = 2;
* stops the transaction
public JVTransactionOutput getOutput() throws JVException;
/**
* Oreturn one of the statuses defined in this interface
public int detStatus() throws JVException;
* @return a List of checksum (statetable) comparison of 2
workspaces
public List init() throws JVException;
* starts the transaction (non-blocking)
public void start() throws JVException;
* stops the transaction
public void stop() throws JVException;
```